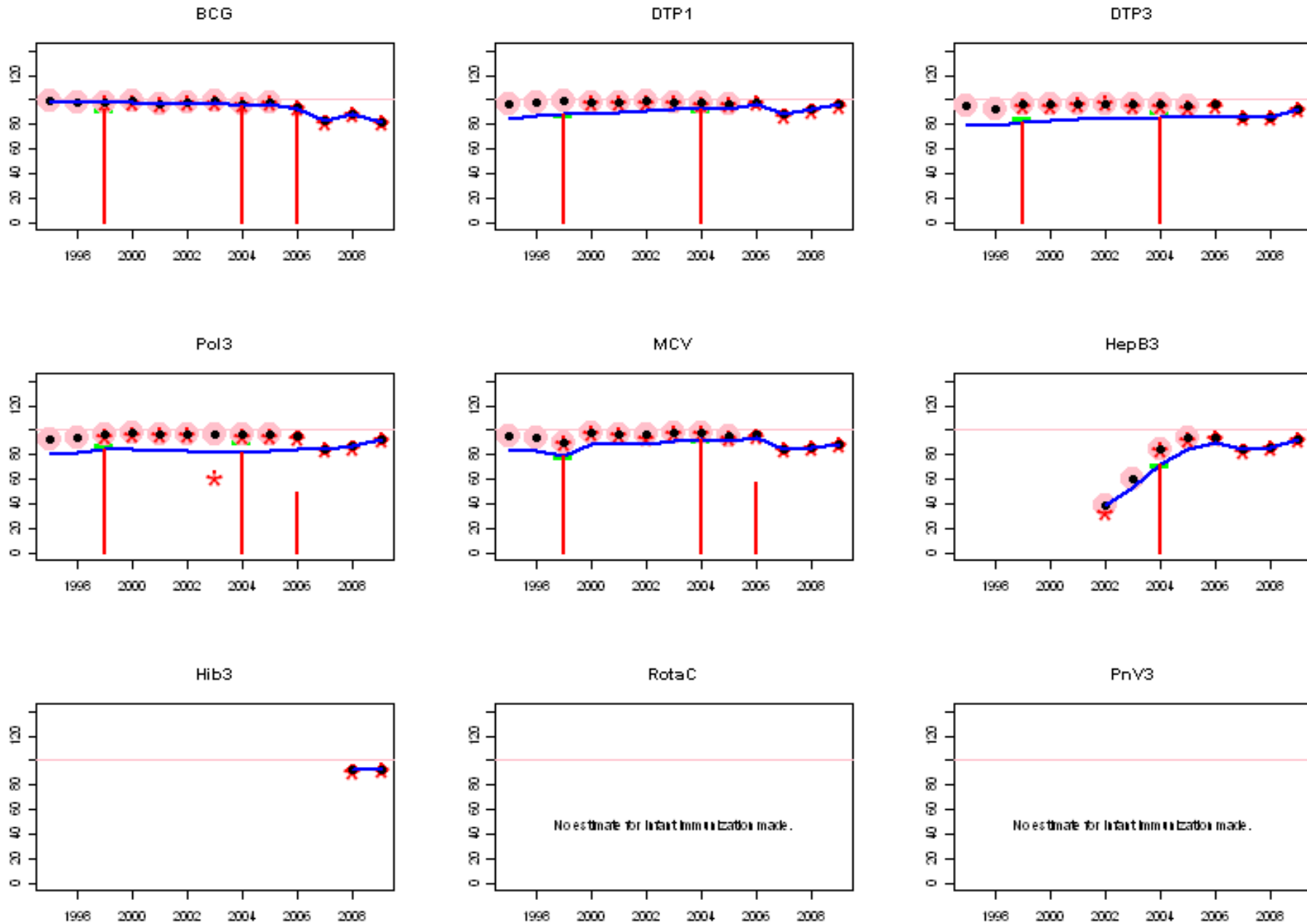
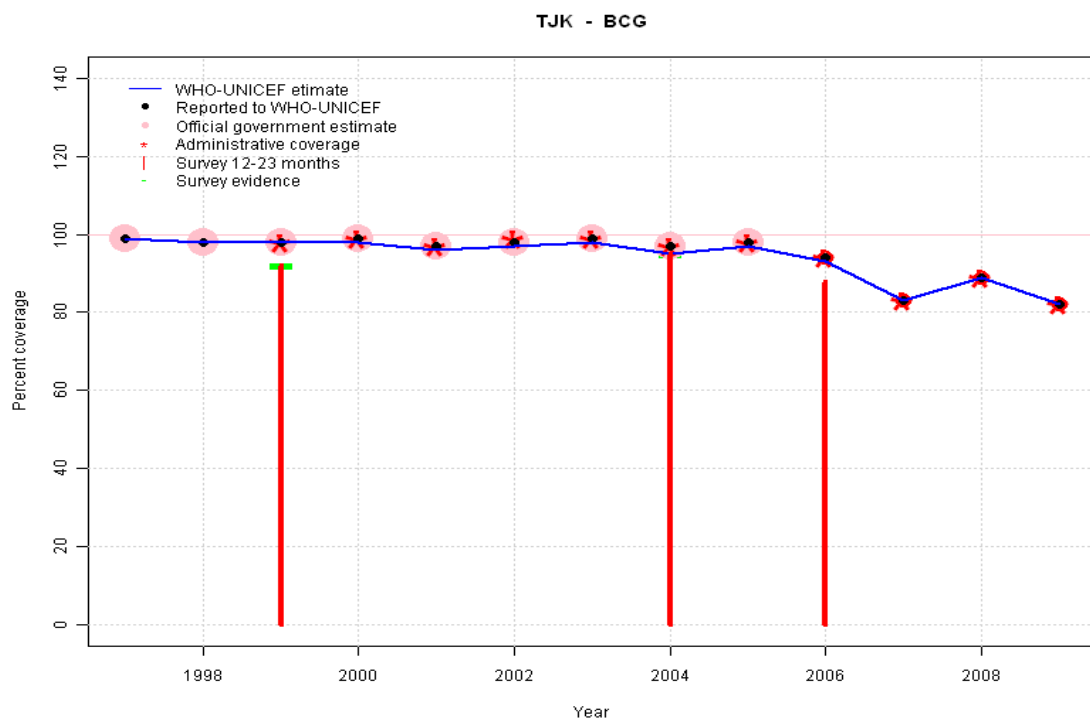


Tajikistan: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



# Tajikistan - BCG

## Description:

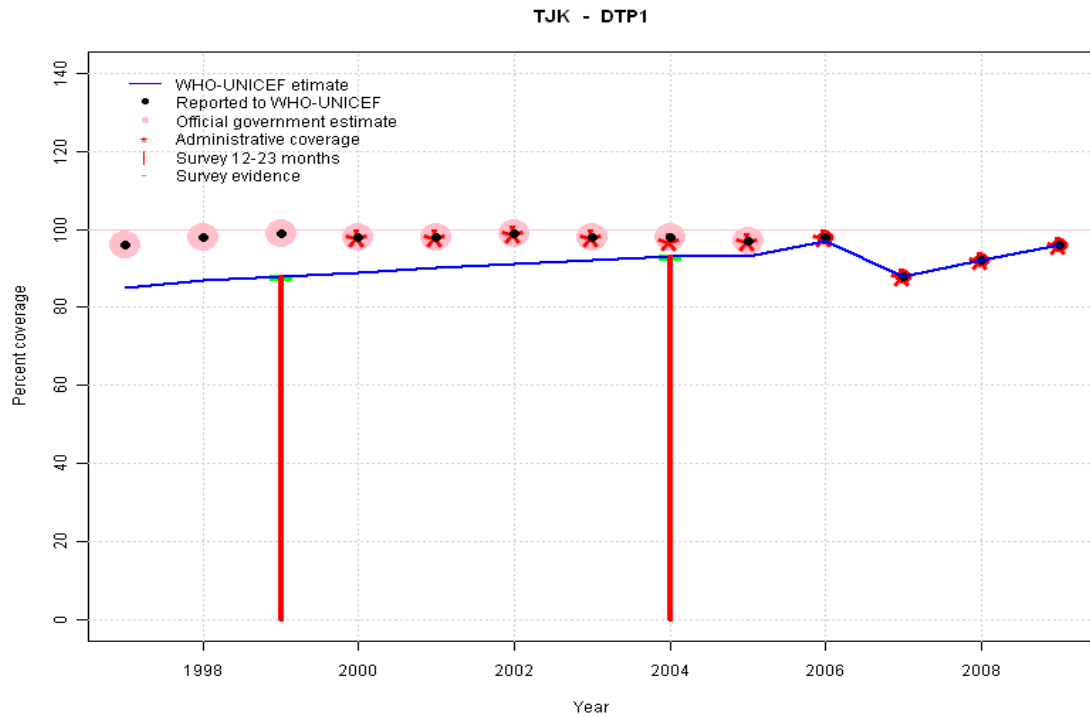


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data (98 percent) confirmed by survey (92 percent).
- 2000: Reported data (99 percent) calibrated to 1999 and 2004 levels.
- 2001: Reported data (97 percent) calibrated to 1999 and 2004 levels.
- 2002: Reported data (98 percent) calibrated to 1999 and 2004 levels.
- 2003: Reported data (99 percent) calibrated to 1999 and 2004 levels.
- 2004: Estimate based on survey results
- 2005: Reported data (98 percent) calibrated to 2004 and 2007 levels.
- 2006: Reported data (94 percent) calibrated to 2004 and 2007 levels. Survey results of 88 percent ignored by working group. Survey ignored; results and methodology are inconsistent with previous surveys; sample size equals the size of the target population with only 4860 households surveyed.
- 2007: Estimate based on reported data following updated denominator estimate.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | 99   | 98   | 98   | 98   | 96   | 97   | 98   | 95   | 97   | 93   | 83   | 89   | 82   |
| Reported       | 99   | 98   | 98   | 99   | 97   | 98   | 99   | 97   | 98   | 94   | 83   | 89   | 82   |
| Official       | 99   | 98   | 98   | 99   | 97   | 98   | 99   | 97   | 98   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | 98   | 99   | 97   | 99   | 99   | 97   | 98   | 94   | 83   | 89   | 82   |
| Survey         | NA   | NA   | 92   | NA   | NA   | NA   | NA   | 95   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - DTP1

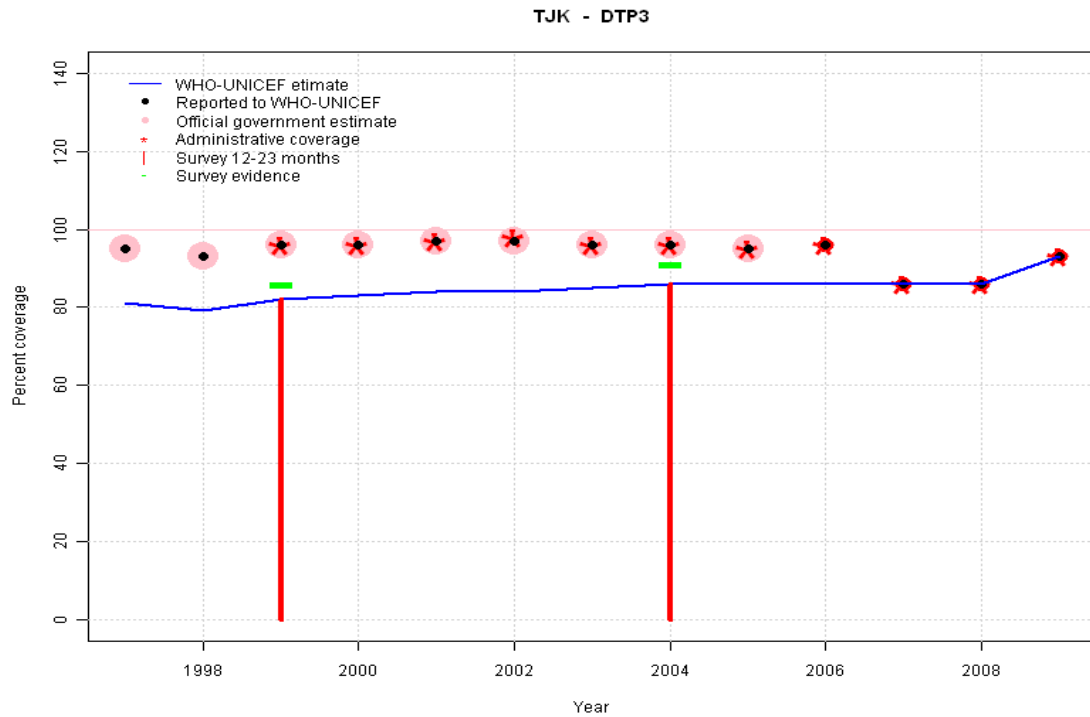
## Description:



- 1997: Legacy estimate.
- 1998: Reported data (98 percent) calibrated to 1997 and 1999 levels.
- 1999: Estimate based on survey results. Reported data (99 percent) not consistent with survey results (88 percent).
- 2000: Estimate interpolated between 1999 and 2004 estimates.
- 2001: Estimate interpolated between 1999 and 2004 estimates.
- 2002: Estimate interpolated between 1999 and 2004 estimates.
- 2003: Estimate interpolated between 1999 and 2004 estimates.
- 2004: Estimate is based on survey results
- 2005: Reported data (97 percent) calibrated to 2004 and 2007 levels.
- 2006: Reported data (98 percent) calibrated to 2004 and 2007 levels.
- 2007: Estimate based on the reported data following a denominator series revision by the Ministry of Health.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | 85   | 87   | 88   | 89   | 90   | 91   | 92   | 93   | 93   | 97   | 88   | 92   | 96   |
| Reported       | 96   | 98   | 99   | 98   | 98   | 99   | 98   | 98   | 97   | 98   | 88   | 92   | 96   |
| Official       | 96   | 98   | 99   | 98   | 98   | 99   | 98   | 98   | 97   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | NA   | 98   | 98   | 99   | 98   | 97   | 97   | 98   | 88   | 92   | 96   |
| Survey         | NA   | NA   | 88   | NA   | NA   | NA   | NA   | 93   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - DTP3



|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | 81   | 79   | 82   | 83   | 84   | 84   | 85   | 86   | 86   | 86   | 86   | 86   | 93   |
| Reported       | 95   | 93   | 96   | 96   | 97   | 97   | 96   | 96   | 95   | 96   | 86   | 86   | 93   |
| Official       | 95   | 93   | 96   | 96   | 97   | 97   | 96   | 96   | 95   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | 96   | 96   | 97   | 98   | 96   | 96   | 95   | 96   | 86   | 86   | 93   |
| Survey         | NA   | NA   | 86   | NA   | NA   | NA   | NA   | 91   | NA   | NA   | NA   | NA   | NA   |

## Description:

1997: Legacy estimate.

1998: Reported data (93 percent) calibrated to 1997 and 1999 levels.

1999: Recall bias adjustment for survey results ignored due to high card retention rates. Survey results (82 percent) adjusted for recall bias to 86 percent based on first dose card or history coverage (88 percent) and documented drop-out between first (76 percent) and third (74 percent) doses.

2000: Estimate interpolated between 1999 and 2004 estimates.

2001: Estimate interpolated between 1999 and 2004 estimates.

2002: Estimate interpolated between 1999 and 2004 estimates.

2003: Estimate interpolated between 1999 and 2004 estimates.

2004: Estimate based on survey results Survey results (86 percent) adjusted for recall bias to 91 percent based on first dose card or history coverage (93 percent) and documented drop-out between first (82 percent) and third (80 percent) doses. Recall bias adjustment for survey results ignored due to high card retention rates.

2005: Estimate interpolated between 2004 and 2007 estimates.

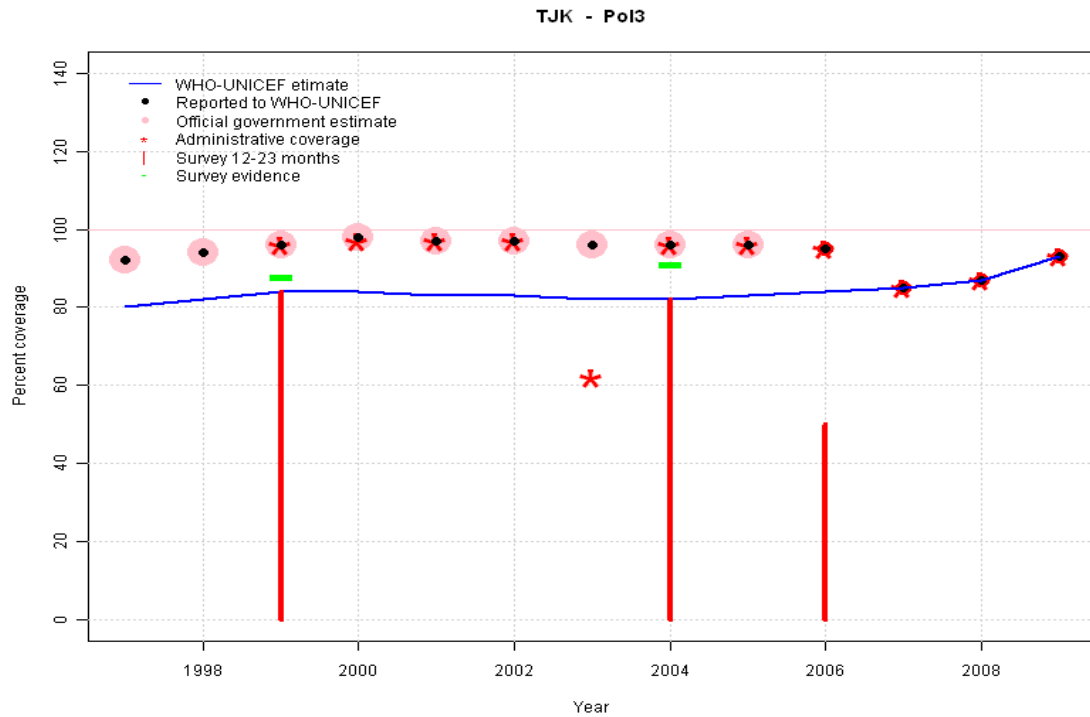
2006: Estimate interpolated between 2004 and 2007 estimates.

2007: Estimate based on reported data following updated denominator estimate.

2008: Estimate based on reported data.

2009: Estimate based on reported data.

# Tajikistan - Pol3



|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | 80   | 82   | 84   | 84   | 83   | 83   | 82   | 82   | 83   | 84   | 85   | 87   | 93   |
| Reported       | 92   | 94   | 96   | 98   | 97   | 97   | 96   | 96   | 96   | 95   | 85   | 87   | 93   |
| Official       | 92   | 94   | 96   | 98   | 97   | 97   | 96   | 96   | 96   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | 96   | 97   | 97   | 97   | 62   | 96   | 96   | 95   | 85   | 87   | 93   |
| Survey         | NA   | NA   | 88   | NA   | NA   | NA   | NA   | 91   | NA   | NA   | NA   | NA   | NA   |

## Description:

1997: Legacy estimate.

1998: Reported data (94 percent) calibrated to 1997 and 1999 levels.

1999: Recall bias adjustment for survey results ignored due to high card retention rates. Survey results (84 percent) adjusted for recall bias to 88 percent based on first dose card or history coverage (92 percent) and documented drop-out between first (78 percent) and third (75 percent) doses.

2000: Estimate interpolated between 1999 and 2004 estimates.

2001: Estimate interpolated between 1999 and 2004 estimates.

2002: Estimate interpolated between 1999 and 2004 estimates.

2003: Estimate interpolated between 1999 and 2004 estimates.

2004: Estimate based on survey results Survey results (82 percent) adjusted for recall bias to 91 percent based on first dose card or history coverage (93 percent) and documented drop-out between first (81 percent) and third (79 percent) doses. Recall bias adjustment for survey results ignored due to high card retention rates.

2005: Estimate interpolated between 2004 and 2007 estimates.

2006: Estimate interpolated between 2004 and 2007 estimates. Survey results of 50 percent ignored by working group. Survey ignored; results and methodology are inconsistent with previous surveys; sample size equals the size of the target population with only 4860 households surveyed.

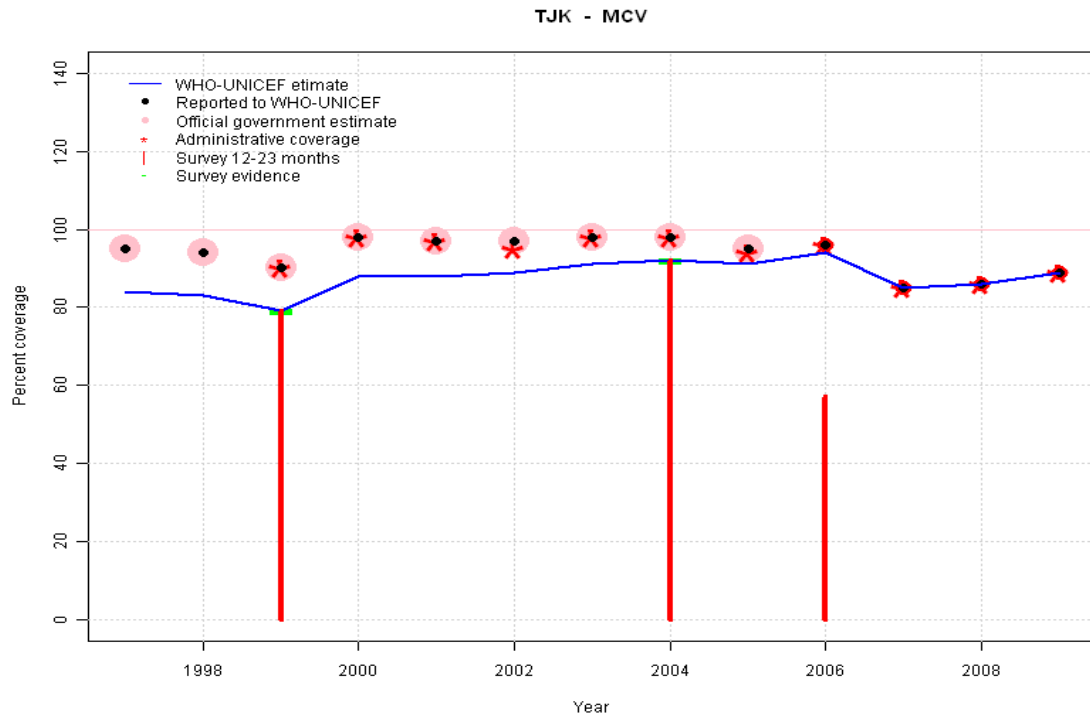
2007: Estimate based on reported data following updated denominator estimate.

2008: Estimate based on reported data.

2009: Estimate based on reported data. MoH reports polio outbreak of more than 300 cases as of 1 July 2010.

# Tajikistan - MCV

## Description:

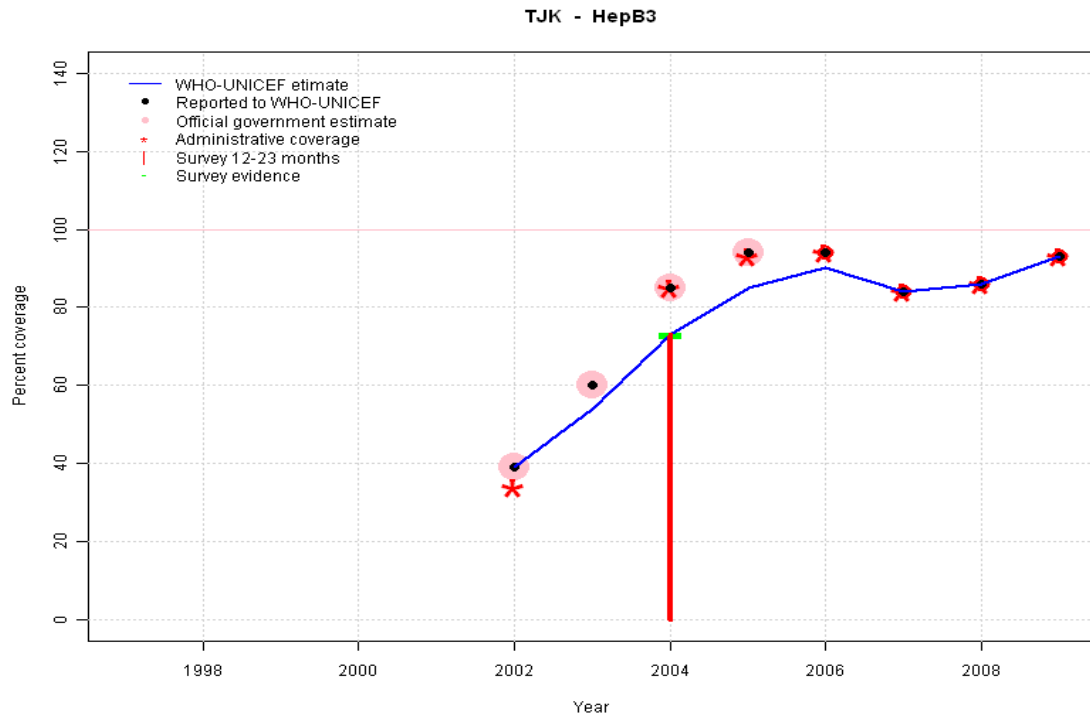


- 1997: Legacy estimate.
- 1998: Reported data (94 percent) calibrated to 1997 and 1999 levels.
- 1999: Estimate based on survey results. Reported data (90 percent) not consistent with survey results (79 percent).
- 2000: Reported data (98 percent) calibrated to 1999 and 2004 levels.
- 2001: Reported data (97 percent) calibrated to 1999 and 2004 levels.
- 2002: Reported data (97 percent) calibrated to 1999 and 2004 levels.
- 2003: Reported data (98 percent) calibrated to 1999 and 2004 levels.
- 2004: Estimate based on survey results
- 2005: Reported data (95 percent) calibrated to 2004 and 2007 levels.
- 2006: Reported data (96 percent) calibrated to 2004 and 2007 levels. Survey results of 57 percent ignored by working group. Survey ignored; results and methodology are inconsistent with previous surveys; sample size equals the size of the target population with only 4860 households surveyed.
- 2007: Estimate based on reported data following updated denominator estimate.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | 84   | 83   | 79   | 88   | 88   | 89   | 91   | 92   | 91   | 94   | 85   | 86   | 89   |
| Reported       | 95   | 94   | 90   | 98   | 97   | 97   | 98   | 98   | 95   | 96   | 85   | 86   | 89   |
| Official       | 95   | 94   | 90   | 98   | 97   | 97   | 98   | 98   | 95   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | 90   | 98   | 97   | 95   | 98   | 98   | 94   | 96   | 85   | 86   | 89   |
| Survey         | NA   | NA   | 79   | NA   | NA   | NA   | NA   | 92   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - HepB3

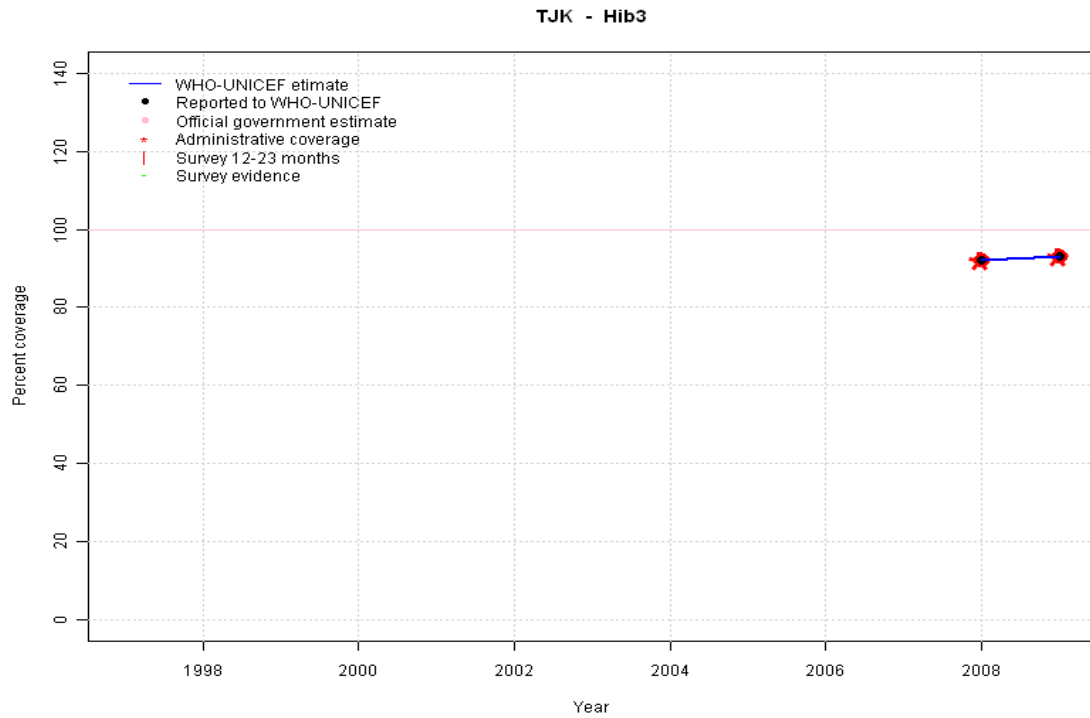
## Description:



- 2002: Hepatitis B vaccine introduced in 2002. HepB introduced in 2002
- 2003: Reported data (60 percent) calibrated to 2002 and 2004 levels.
- 2004: Estimate based on survey results. Reported data (85 percent) not consistent with survey results (73 percent).
- 2005: Estimate is calibrated from reported data using adjustment factor of 0.08, based on the 2004 survey.
- 2006: Reported data (94 percent) calibrated to 2005 and 2007 levels.
- 2007: Estimate based on survey results
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | NA   | NA   | NA   | NA   | NA   | 39   | 54   | 73   | 85   | 90   | 84   | 86   | 93   |
| Reported       | NA   | NA   | NA   | NA   | NA   | 39   | 60   | 85   | 94   | 94   | 84   | 86   | 93   |
| Official       | NA   | NA   | NA   | NA   | NA   | 39   | 60   | 85   | 94   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | NA   | NA   | NA   | 34   | NA   | 85   | 93   | 94   | 84   | 86   | 93   |
| Survey         | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 73   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - Hib3



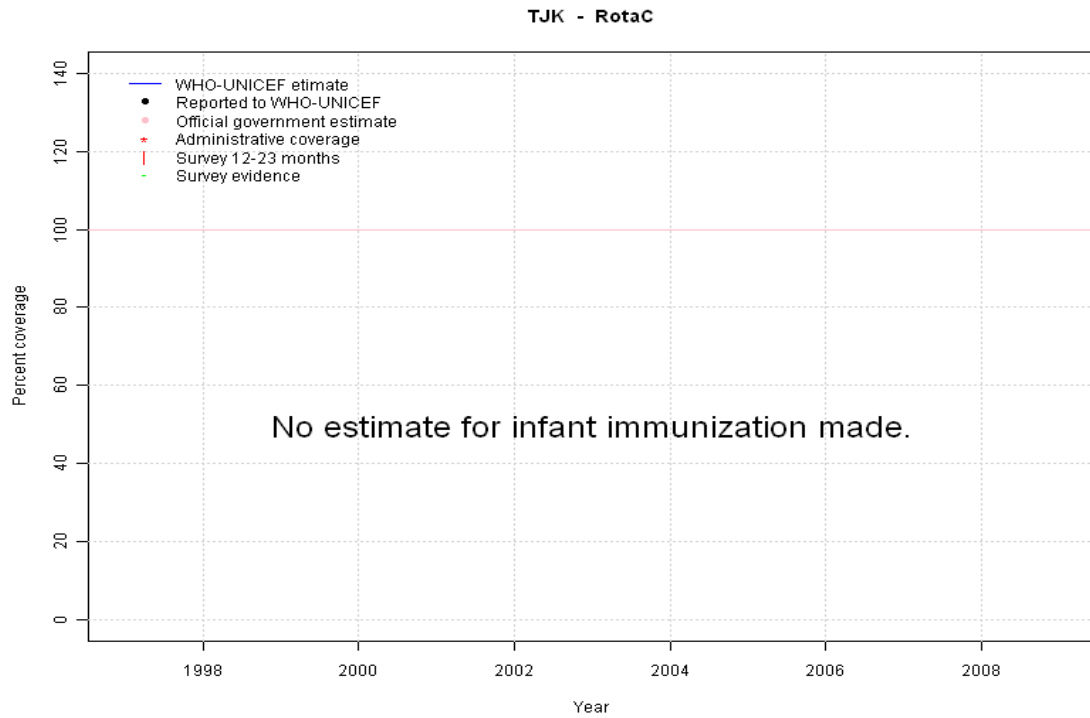
## Description:

2008: Estimate based on reported data. Hib introduced in 2008 Vaccine presentation is DTP-HepB-Hib.

2009: Estimate based on reported data.

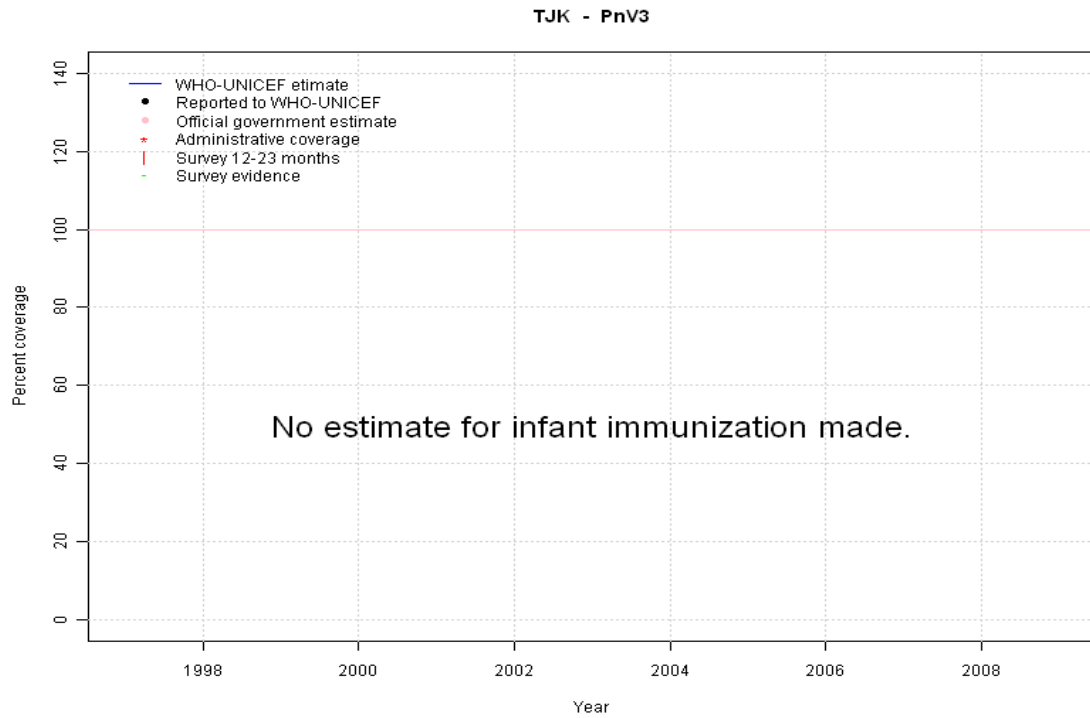
|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 92   | 93   |
| Reported       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 92   | 93   |
| Official       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 92   | 93   |
| Survey         | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - RotaC



|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Reported       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Official       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Survey         | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - PnV3



|                | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Reported       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Official       | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Administrative | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |
| Survey         | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   |

# Tajikistan - survey details

## 2006 Tajikistan Living Standards Measurement Survey 2007

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG     | Card or History     | 88       | 12-23 m    | 157759 | 0          |
| MCV     | Card or History     | 57       | 12-23 m    | 157759 | 0          |
| Pol1    | Card or History     | 83       | 12-23 m    | 157759 | 0          |
| Pol3    | Card or History     | 50       | 12-23 m    | 157759 | 0          |

|      |                   |    |         |     |    |
|------|-------------------|----|---------|-----|----|
| Pol1 | C or H <12 months | 92 | 18-29 m | 826 | 83 |
| Pol1 | Card              | 81 | 18-29 m | 826 | 83 |
| Pol1 | Card or History   | 93 | 18-29 m | 826 | 83 |
| Pol1 | History           | 12 | 18-29 m | 826 | 83 |
| Pol3 | Card or History   | 82 | 18-29 m | 826 | 83 |
| Pol3 | History           | 3  | 18-29 m | 826 | 83 |
| Pol3 | C or H <12 months | 79 | 18-29 m | 826 | 83 |
| Pol3 | Card              | 79 | 18-29 m | 826 | 83 |

## 2004 ?????????? ?????????? ?? ??? ?????????????????? ?????? ????? 2005

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG     | C or H <12 months   | 94       | 18-29 m    | 826    | 83         |
| BCG     | Card                | 81       | 18-29 m    | 826    | 83         |
| BCG     | Card or History     | 95       | 18-29 m    | 826    | 83         |
| BCG     | History             | 14       | 18-29 m    | 826    | 83         |
| DTP1    | Card or History     | 93       | 18-29 m    | 826    | 83         |
| DTP1    | Card                | 82       | 18-29 m    | 826    | 83         |
| DTP1    | History             | 11       | 18-29 m    | 826    | 83         |
| DTP1    | C or H <12 months   | 91       | 18-29 m    | 826    | 83         |
| DTP3    | C or H <12 months   | 82       | 18-29 m    | 826    | 83         |
| DTP3    | Card                | 80       | 18-29 m    | 826    | 83         |
| DTP3    | Card or History     | 86       | 18-29 m    | 826    | 83         |
| DTP3    | History             | 6        | 18-29 m    | 826    | 83         |
| HepB1   | Card or History     | 85       | 18-29 m    | 826    | 83         |
| HepB1   | Card                | 70       | 18-29 m    | 826    | 83         |
| HepB1   | History             | 15       | 18-29 m    | 826    | 83         |
| HepB1   | C or H <12 months   | 84       | 18-29 m    | 826    | 83         |
| HepB3   | C or H <12 months   | 69       | 18-29 m    | 826    | 83         |
| HepB3   | Card                | 67       | 18-29 m    | 826    | 83         |
| HepB3   | Card or History     | 73       | 18-29 m    | 826    | 83         |
| HepB3   | History             | 6        | 18-29 m    | 826    | 83         |
| MCV     | C or H <12 months   | 91       | 18-29 m    | 826    | 83         |
| MCV     | Card                | 78       | 18-29 m    | 826    | 83         |
| MCV     | Card or History     | 92       | 18-29 m    | 826    | 83         |
| MCV     | History             | 14       | 18-29 m    | 826    | 83         |

## 1999 Multiple Indicator Cluster Survey, Tajikistan 2000

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG     | C or H <12 months   | 89       | 12-23 m    | 745    | 78         |
| BCG     | Card                | 76       | 12-23 m    | 745    | 78         |
| BCG     | Card or History     | 92       | 12-23 m    | 745    | 78         |
| BCG     | History             | 16       | 12-23 m    | 745    | 78         |
| DTP1    | C or H <12 months   | 84       | 12-23 m    | 745    | 78         |
| DTP1    | Card                | 76       | 12-23 m    | 745    | 78         |
| DTP1    | Card or History     | 88       | 12-23 m    | 745    | 78         |
| DTP1    | History             | 11       | 12-23 m    | 745    | 78         |
| DTP3    | History             | 18       | 12-23 m    | 745    | 78         |
| DTP3    | C or H <12 months   | 76       | 12-23 m    | 745    | 78         |
| DTP3    | Card                | 74       | 12-23 m    | 745    | 78         |
| DTP3    | Card or History     | 82       | 12-23 m    | 745    | 78         |
| MCV     | Card                | 67       | 12-23 m    | 745    | 78         |
| MCV     | Card or History     | 79       | 12-23 m    | 745    | 78         |
| MCV     | History             | 12       | 12-23 m    | 745    | 78         |
| MCV     | C or H <12 months   | 61       | 12-23 m    | 745    | 78         |
| Pol1    | C or H <12 months   | 89       | 12-23 m    | 745    | 78         |
| Pol1    | Card                | 78       | 12-23 m    | 745    | 78         |
| Pol1    | Card or History     | 92       | 12-23 m    | 745    | 78         |
| Pol1    | History             | 14       | 12-23 m    | 745    | 78         |
| Pol3    | History             | 9        | 12-23 m    | 745    | 78         |
| Pol3    | C or H <12 months   | 78       | 12-23 m    | 745    | 78         |
| Pol3    | Card                | 75       | 12-23 m    | 745    | 78         |
| Pol3    | Card or History     | 84       | 12-23 m    | 745    | 78         |

# Tajikistan - survey details

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Further information and estimates for 1980-1996 are available at:

[http://www.childinfo.org/immunization\\_countryreports.html](http://www.childinfo.org/immunization_countryreports.html)

[http://www.who.int/immunization\\_monitoring/routine/immunization\\_coverage/en/index4.html](http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html)